Index for Volume 81 of Plant Disease

AUTHOR AND SUBJECT INDEX. Page numbers of errata are in italic. N indicates disease note.

Abad, J. A., 682
Abad, Z. G., 682
Abdalla, O., 27
Abdeen, F. M., 1215N
Abies spp., *Phyllosticta multicorniculata* on, in Northeastern USA, 230N
—*A. fraseri,* cankers in Pennsylvania and North Carolina, 830N
—*A. lasiocarpa, Delphinella balsameae* tip blight on, in Vermont, 229N
Abney, T. S., 653, 1100
Abou-Jawdah, Y., 112N, 1331N
Aceria tosichella
—on corn and wheat, High Plains virus vector, 1161
—on wheat, wheat streak mosaic virus vector, 250
Achar, P. N., 695N
Acidovorax avenae
—on honeydew: 694N; cover photo, June
—on sweet corn, 1293; cover photo, November
—on watermelon, first report in Oregon, 113N
Acremonium spp.
—on grasses, 430, *956*
—on peach in Spain, postharvest, 958N
Adee, E. A., 199
Adenium obesum, Aristastoma leaf spot, first report, 960N
Adiantum pedatum, cucumber mosaic virus, symptoms, 1333N
Adipala, E., 465, 1395
Aeschynomene virginica, anthracnose, wild-type and mutant strains, 404
Aggelaki, M. D., 960N
Agrostis palustris, dollar spot, epidemic recovery, 99
Aguilar, O. M., 230N
Aguirre R., J., 831N
Ahlawat, Y. S., 669
Ahounou, M., 112N, 1332N
Ajuga reptans, mosaic and ringspot, virus association, 1214N
Akem, C. N., 695N
Alad, F., 489
Albugo tragopogonis, on gerbera, first report in North America, 228N
Alderman, S. C., 1335N
Alfalfa, Sclerotinia crown and stem rot
—cultural and chemical control, 13
—herbicide effect, 787
Al-Fehaid, M. S., 1215N
Ali, A., 343
Alippi, A. M., 230N
Ali-Shtayeh, M. S., 959N
Alizadeh, A., 31
Allium sativum, pathogenic fungi, ultrastructure, 1241
Almond, shot hole, kernel quality, 1454
Alternaria sp., on Minneola tangelo, in Turkey, 1214N
—*A. alternata,* on tomato, chlorothalonil for, 601
—*A. brassicae:* on broccoli, in California, 552N; on daikon, in California, 1094N
Alzate-Marin, A. L., 996
Amer, M. A., 154
Amerson, H. V., 597
Anderson, E. J., 231N, 959N
Anderson, M. G., 227N
Anderson, P. K., 1358
Anderson, R. L., 830N
Anderson, T. R., 107
Anderson, T. W., 501, *681*
Anderson, W. F., 1429
Anisogramma anomala, on filbert, resistance analysis, 388
Annesi, T., 1214N
Aphanomyces euteiches, on pea
—inhibition by *Brassica napus* seed meal, 288
—in Scandinavia, 171
Aphids, citrus tristeza virus vectors, detection using RT-PCR, 1066
Aphis spiraecola, citrus tristeza virus vector in Florida, 18
Apple
—flyspeck, summer pruning method, 1123
—russet, *Aureobasidium* and *Rhodotorula* as causes, 337
—scab: dolomitic lime effect on asci, 96; infection efficiency, flower bud stage, 661
Aquino, M. J., 228N
Aragaki, M., 298
Arauz, F., 1015
Arceuthobium tsugense, anthracnose, in Canada, 1095N
Arévalo, E., 552N
Arifi, A., 831N
Aristastoma spp., on desert rose, first report, 960N
Arlat, M., 31
Armengol, J., 1216N
Armillaria sp., on tea, distribution and severity in Kenya, 133
Arredondo, C. R., 312N
Arsyad, D. M., 107
Artés, F., 880, 958N
Asclepias tuberosa, wilt and root diseases, 1203
Ascochyta spp.
—*A. fabae,* on faba bean, *A. lentis* comparison, taxonomy, 809
—*A. rabiei,* on chickpea, mating types in Turkey, 1284
Asparagus
—*Fusarium* spp., incidence, 957N
—*Xanthomonas campestris*, new disease in Florida, 847
Aspergillus flavus
—on corn, infection and aflatoxin in Benin, 1323
—on peanut, aflatoxin and genotype resistance, 1429
—strain composition, spatial and temporal patterns, propagule density, 911
—on waste corn, in corn agroecosystem, 576
Atencio, F. A., 695N
Atibalentja, N., 356
Aubry, K. B., 551N
Aureobasidium pullulans, on apple fruit, cause of russet, 337
Autio, W. R., 1123
Avocado
—preharvest fruit diseases, biocontrol in South Africa, 455
—sunblotch, indexing by RT-PCR, 1023
Aylor, D. E., 661

Babin, M., 112N
Bachelier, J. C., 1231
Bachman, M. S., 953
Bacillus subtilis, biocontrol for avocado fruit diseases, 455
Bacon, C. W., 723
Baía, G. S., 996
Bailey, J. E., 990
Baimey, H., 112N, 1332N
Bains, P. S., 1011
Baird, R. E., 530, 551N, 832N
Bakelman, H., 489
Baker, J. R., 1220
Bakonyi, J., 1094N
Banana
—anthracnose, thiabendazole resistance, 1378
—black sigatoka: in Bolivia, 1332N; resistance, temperature, and geography, 1139
Banana bract mosaic virus, characterization in India, 669
Banana bunchy top virus, in Malawi, 1096N
Banana streak badnavirus, on plantain, in Central Africa, 1335N
Banana streak virus
—on banana in Taiwan, 550N
—on sugarcane and arrowroot, in Colombia, 552N
Banttari, E. E., 53
Barakat, R. M., 1391
Barba, M., 423N
Barley
—*Cochliobolus sativus,* pathotypes in North Dakota, 1275
—ergot, outbreak in Iowa, 830N
—scab, epidemics, 1340
Barley yellow dwarf virus
—detection techniques, 1236
—on oat, yield loss, in Illinois, 485
—regulation in aphid, 570
—on wheat, growth effect, 497
Barnes, L. W., 694N
Barrault, G., 31
Barthe, G. A., 1196
Bashir, A., 958N
Basil
—diseases and management, 124
—*Sclerotinia sclerotiorum,* first report in Canada, 229N
Bauske, E. M., 485
Bean common mosaic necrosis virus, first report in California, 831N
Beaulieu, C., 901
Bedendo, I. P., 957N
Beet, Rhizoctonia root and crown rot, chloride and nitrogen effect, 635
Beet soilborne mosaic virus, characteristics, 1070
Beeton, K. V., 851
Behe, B. K., 89
Belalcázar, S., 552N
Bellardi, M. G., 959N
Bellesia, F., 1241
Bemisi tabaci, geminivirus vector, on tomato, 1358
Ben-Harush, S., 185
Ben-Joseph, R., 185
Ben-Yephet, Y., 777
Ben Ze'ev, I. S., 1264
Beretta, M. J. G., 1196
Berger, R. D., 917
Bermudagrass, take-all, cross pathogenicity with rice, 1127
Berner, D. K., 832N
Bertrand, P. F., 163
Bestwick, R. K., 802
Bianchi, A., 1241
Biederstedt, D. L., 825
Bigelow, D. M., 911
Biggs, A. R., 399

Index for Volume 81 of Plant Disease

AUTHOR AND SUBJECT INDEX. Page numbers of errata are in italic. N indicates disease note.

Abad, J. A., 682
Abad, Z. G., 682
Abdalla, O., 27
Abdeen, F. M., 1215N
Abies spp., *Phyllosticta multicorniculata* on, in Northeastern USA, 230N
—*A. fraseri,* cankers in Pennsylvania and North Carolina, 830N
—*A. lasiocarpa, Delphinella balsameae* tip blight on, in Vermont, 229N
Abney, T. S., 653, 1100
Abou-Jawdah, Y., 112N, 1331N
Aceria tosichella
—on corn and wheat, High Plains virus vector, 1161
—on wheat, wheat streak mosaic virus vector, 250
Achar, P. N., 695N
Acidovorax avenae
—on honeydew: 694N; cover photo, June
—on sweet corn, 1293; cover photo, November
—on watermelon, first report in Oregon, 113N
Acremonium spp.
—on grasses, 430, *956*
—on peach in Spain, postharvest, 958N
Adee, E. A., 199
Adenium obesum, Aristastoma leaf spot, first report, 960N
Adiantum pedatum, cucumber mosaic virus, symptoms, 1333N
Adipala, E., 465, 1395
Aeschynomene virginica, anthracnose, wild-type and mutant strains, 404
Aggelaki, M. D., 960N
Agrostis palustris, dollar spot, epidemic recovery, 99
Aguilar, O. M., 230N
Aguirre R., J., 831N
Ahlawat, Y. S., 669
Ahounou, M., 112N, 1332N
Ajuga reptans, mosaic and ringspot, virus association, 1214N
Akem, C. N., 695N
Alad, F., 489
Albugo tragopogonis, on gerbera, first report in North America, 228N
Alderman, S. C., 1335N
Alfalfa, Sclerotinia crown and stem rot
—cultural and chemical control, 13
—herbicide effect, 787
Al-Fehaid, M. S., 1215N
Ali, A., 343
Alippi, A. M., 230N
Ali-Shtayeh, M. S., 959N
Alizadeh, A., 31
Allium sativum, pathogenic fungi, ultrastructure, 1241
Almond, shot hole, kernel quality, 1454
Alternaria sp., on Minneola tangelo, in Turkey, 1214N
—*A. alternata,* on tomato, chlorothalonil for, 601
—*A. brassicae:* on broccoli, in California, 552N; on daikon, in California, 1094N
Alzate-Marin, A. L., 996
Amer, M. A., 154
Amerson, H. V., 597
Anderson, E. J., 231N, 959N
Anderson, M. G., 227N
Anderson, P. K., 1358
Anderson, R. L., 830N
Anderson, T. R., 107
Anderson, T. W., 501, *681*
Anderson, W. F., 1429
Anisogramma anomala, on filbert, resistance analysis, 388
Annesi, T., 1214N
Aphanomyces euteiches, on pea
—inhibition by *Brassica napus* seed meal, 288
—in Scandinavia, 171
Aphids, citrus tristeza virus vectors, detection using RT-PCR, 1066
Aphis spiraecola, citrus tristeza virus vector in Florida, 18
Apple
—flyspeck, summer pruning method, 1123
—russet, *Aureobasidium* and *Rhodotorula* as causes, 337
—scab: dolomitic lime effect on asci, 96; infection efficiency, flower bud stage, 661
Aquino, M. J., 228N
Aragaki, M., 298
Arauz, F., 1015
Arceuthobium tsugense, anthracnose, in Canada, 1095N
Arévalo, E., 552N
Arifi, A., 831N
Aristastoma spp., on desert rose, first report, 960N
Arlat, M., 31
Armengol, J., 1216N
Armillaria sp., on tea, distribution and severity in Kenya, 133
Arredondo, C. R., 312N
Arsyad, D. M., 107
Artés, F., 880, 958N
Asclepias tuberosa, wilt and root diseases, 1203
Ascochyta spp.
—*A. fabae,* on faba bean, *A. lentis* comparison, taxonomy, 809
—*A. rabiei,* on chickpea, mating types in Turkey, 1284
Asparagus
—*Fusarium* spp., incidence, 957N
—*Xanthomonas campestris*, new disease in Florida, 847
Aspergillus flavus
—on corn, infection and aflatoxin in Benin, 1323
—on peanut, aflatoxin and genotype resistance, 1429
—strain composition, spatial and temporal patterns, propagule density, 911
—on waste corn, in corn agroecosystem, 576
Atencio, F. A., 695N
Atibalentja, N., 356
Aubry, K. B., 551N
Aureobasidium pullulans, on apple fruit, cause of russet, 337
Autio, W. R., 1123
Avocado
—preharvest fruit diseases, biocontrol in South Africa, 455
—sunblotch, indexing by RT-PCR, 1023
Aylor, D. E., 661

Babin, M., 112N
Bachelier, J. C., 1231
Bachman, M. S., 953
Bacillus subtilis, biocontrol for avocado fruit diseases, 455
Bacon, C. W., 723
Baía, G. S., 996
Bailey, J. E., 990
Baimey, H., 112N, 1332N
Bains, P. S., 1011
Baird, R. E., 530, 551N, 832N
Bakelman, H., 489
Baker, J. R., 1220
Bakonyi, J., 1094N
Banana
—anthracnose, thiabendazole resistance, 1378
—black sigatoka: in Bolivia, 1332N; resistance, temperature, and geography, 1139
Banana bract mosaic virus, characterization in India, 669
Banana bunchy top virus, in Malawi, 1096N
Banana streak badnavirus, on plantain, in Central Africa, 1335N
Banana streak virus
—on banana in Taiwan, 550N
—on sugarcane and arrowroot, in Colombia, 552N
Banttari, E. E., 53
Barakat, R. M., 1391
Barba, M., 423N
Barley
—*Cochliobolus sativus,* pathotypes in North Dakota, 1275
—ergot, outbreak in Iowa, 830N
—scab, epidemics, 1340
Barley yellow dwarf virus
—detection techniques, 1236
—on oat, yield loss, in Illinois, 485
—regulation in aphid, 570
—on wheat, growth effect, 497
Barnes, L. W., 694N
Barrault, G., 31
Barthe, G. A., 1196
Bashir, A., 958N
Basil
—diseases and management, 124
—*Sclerotinia sclerotiorum,* first report in Canada, 229N
Bauske, E. M., 485
Bean common mosaic necrosis virus, first report in California, 831N
Beaulieu, C., 901
Bedendo, I. P., 957N
Beet, Rhizoctonia root and crown rot, chloride and nitrogen effect, 635
Beet soilborne mosaic virus, characteristics, 1070
Beeton, K. V., 851
Behe, B. K., 89
Belalcázar, S., 552N
Bellardi, M. G., 959N
Bellesia, F., 1241
Bemisi tabaci, geminivirus vector, on tomato, 1358
Ben-Harush, S., 185
Ben-Joseph, R., 185
Ben-Yephet, Y., 777
Ben Ze'ev, I. S., 1264
Beretta, M. J. G., 1196
Berger, R. D., 917
Bermudagrass, take-all, cross pathogenicity with rice, 1127
Berner, D. K., 832N
Bertrand, P. F., 163
Bestwick, R. K., 802
Bianchi, A., 1241
Biederstedt, D. L., 825
Bigelow, D. M., 911
Biggs, A. R., 399

Biological control
—avocado fruit diseases, bacteria and fungicides, 455
—bacterial seed treatments for Pythium root rot of wheat, 180
—biosurfactants for control, 4
—*Fusarium moniliforme* on rice, bacteria, 49
—*Gliocladium roseum* for *Botrytis cinerea* on many crops, 316
—potato silver scurf, 647
—Rhizoctonia blight and root rot of rosemary, 795
—*Trichoderma harzianum* for turf diseases, 1132
Biosurfactants, biocontrol application, 4
Bipolaris oryzae, on wild rice, temperature and moisture effect, 1193
Bisiach, M., 922
Bissonnette, S. M., 485
Black, M. C., 694N
Blackeye cowpea mosaic virus, on cowpea, complex with cucumber mosaic virus, 231N
Blodgett, J. T., 143
Blueberry, scorch virus, heat therapy and meristem culture, 111N
Blueberry shoestring virus, cover photo, October
Blumeriella jaapii, on wild cherry, in Italy, 1214N
Bødker, L., 171
Bonde, M. R., 932, 1370
Borek, V., 288
Borghi, A., 1215N
Boscia, D., 711
Boshoff, W. H. P., 424N
Bosker-van Zessen, A. I., 781
Bothast, R. J., 647
Botryosphaeria ribis, on mango, resistance in Florida, 509
Botrytis cinerea
—on basil, cover photo, February
—bicarbonate effect, 1432
—on coneflower, first report, 1461N; cover photo, December
—on greenhouse crops, benzimidazole and dicarboximide sensitivity, 729
—on many crops, *Gliocladium roseum* as antagonist, 316
—plant extract and essential oil effect on activity, 204
—on raspberry, cover photo, April
—on rose and gerbera, epidemiology, 781
—on tomato, host and climate factors, 36
Boucher, C. A., 31
Bowden, R. L., 582
Bowen, K. L., 89, 927
Brassica oleracea, Rhizoctonia solani on, resistant cultivars, criteria, 946
Bravo-Almonacid, F., 1005
Brenneman, T. B., 163
Brlansky, R. H., 1066
Broad bean wilt fabavirus, on buckwheat, first report, 959N
Broad bean wilt virus, on buckwheat, cover photo, May
Broccoli
—*Alternaria brassicae* on, in California, 552N
—bacterial soft rot, irrigation and yield effect, 614
—powdery mildew, first report in California, 1093N
Brodie, B. B., 228N
Brown, G. F., 1459
Brown, M., 1096N
Brown, S. A., 936
Brune, P. D., 990
Bruton, B. D., 694N, 696N
Bugbee, B., 743
Bukhalid, R. A., 836
Bullock, R. C., 18
Burner, D. M., 189
Burpee, L. L., 1259
Burr, T. J., 337
Buruchara, R. A., 445
Butterfield, J. E., 867
Byrne, J. M., 715, 1167

Cabaleiro, C., 283, 830N
Cadle, M. M., 1181
Caldwell, W. D., 66
Call, J., 245
Callahan, A. M., 1231
Callan, B. E., 231N
Calonectria thea and *colhounii,* on palm, comparative morphology and pathology, in Hawaii, 298
Campbell, C. L., 545
Canavirgella banfieldii, on *Pinus strobus,* in Michigan, 231N
Canfield, M. L., 905
Canihos, Y., 1214N
Cap, G. B., 217
Capsicum annuum
—anthracnose, first report in Mississippi, 693N
—*Erwinia carotovora* on, erratum,305
—*Xanthomonas campestris* on, resistance and copper spray relation, 791
Carazo, G., 112N
Cardwell, K. F., 1323
Carling, D. E., 832N
Carlson, S. R., 1269
Carlton, W. M., 211
Carnation, Fusarium wilt, resistance induced by race 2, 777
Carrero, C., 1332N
Carroll, R. B., 232N, 831N, 1093N
Carson, T., 830N
Carvil, O. N., 363
Casanova, P. E., 230N
Cassava
—anthracnose, *Colletotrichum* cause, 695N
—*Curvularia lunata* on, first disease report, 112N
—root and stem rot, in West Africa, 1332N
Castellanos, C., 1215N
Castro, S., 112N
Catharanthus roseus, Phytophthora parasitica on, flow irrigation effect, 89
Ceccardi, T. L., 1196
Cedeño, L., 1332N
Celery
—bacterial leaf spot, epidemiology and seed contamination, 892
—powdery mildew, first report in North America, 231N
Centaurea maculosa, stem dieback, first report, 113N
Cercospora spp.
—*C. arachidicola:* on peanut: advisories and fungicide scheduling, 236; cover photo, March; tebuconazole for control, 927
—*C. zeae-maydis,* on corn, fungicides for, application factors, 41
Cercosporidium acutatum, on peanut, tebuconazole for control, 927
Cervanes H., A., 551N
Cervantes, L. A., 96
Chalkley, D. B., 1279
Chandler, C. K., 917
Chang, K. F., 311N, 1093N, 1461N
Charudatta, R., 424N
Chatenet, M., 696N
Chavi, F., 1115
Chayote mosaic virus, on *Sechium edule,* in Costa Rica, 374
Chen, W. D., 1143
Cherry
—Mucor rot, postharvest, 550N
—sweet, brown rot blossom blight, epiphytic fungi, 383
Chiang, B.-T., 111N
Chin, C.-K., 227N
Chun, S.-C., 821
Cicer arietinum, Ascochyta blight, mating types in Turkey, 1284
Citrus
—bacterial spot, spray adjuvant effect, 1305
—black spot, copper fungicide for, 851
—blight, in Mexico, 551N
—green mold, imazalil for control, 1299
—Phytophthora gummosis and root rot, seasonal dynamics and fungicides, 1384
—variegated chlorosis and blight, strain survey in Brazil, 1196
Citrus tristeza virus
—in aphids, detection using RT-PCR, 1066
—detection methods in field, 525
—field spread in Florida, 18
—protein gene, sequencing, 693N
Cladosporium spp.
—*C. caryigenum,* propiconazole and fenbuconazole sensitivity, 163
—*C. oxysporum,* on greenhouse tomato, 228N
Clarke, B. B., 873
Claviceps africana, on sorghum, benomyl for control, 761
Clough, G. H., 113N
Cobb, A. C., 71, 677, 1439
Cochliobolus sativus, on barley, pathotypes in North Dakota, 1275
Cohen, R., 1264
Cohen, S., 185, 1425
Cohn, M. A., 821
Coleman, P. M., 138
Colletotrichum spp., on strawberry fruit, temperature and latent period effects, 77
—*C. acutatum:* on leatherleaf fern, soil survival, 1177, on strawberry, fungicides for, 749; teleomorph report, 1334N
—*C. capsici,* on bell pepper, in Mississippi, 693N
—*C. coccodes:* on potato, in Washington, 1199; sclerotia, sporogenic and myceliogenic germination, factors, 333; on tomato, conidial germination and appressorium formation, 715; on tomato, fruit rot management strategies, 1167; on tomato, fungicides for, 1439; on tomato fruit, weather variables, 753
—*C. dematium,* on cowpea stems, in South Africa, 832N
—*C. falcatum,* on sugarcane, stalk desiccation effect, 1247
—*C. gloeosporioides:* on *Arceuthobium tsugense,* in Canada, 1095N; on cassava, cover photo, October; on *Cyclamen,* in Florida, 227N; on northern jointvetch, wild-type and mutant strains, 404
—*C. lindemuthianum,* on bean: resistance inheritance, 996; tillage practices, 71
—*C. musae,* on banana, thiabendazole resistance, 1378
—*C. orbiculare,* on watermelon, temperature and leaf wetness effect, model, 739
Collins, J., 791
Colyer, P. D., 66
Comes, S., 711
Comstock, J. C., 957N
Conci, V., 1005
Coniothyrium minitans, on *Sclerotinia* apothecia, 695N
Conway, K. E., 795
Cook, R. L., 1335N
Cooley, D. R., 1123
Coriandrum sativum, bacterial leaf spot, in Florida, 232N

Corn
—*Aspergillus flavus,* infection and aflatoxins, 1323
—damping-off, bacterial seed treatment, 450, *824*
—fumonisins, occurrence, 556
—*Fusarium graminearum* seedling blight, resistance screening, aeroponics system, 175
—*Fusarium moniliforme:* infection, inoculation method, 211; symptomless infection, 723
—gray leaf spot, fungicides for, 41
—High Plains virus, wheat curl mite as vector, 1161
—High Plains virus and wheat streak mosaic virus complex, 195
—hybrid seed production, fungicide usage analysis, 415
—inoculum source for *Aspergillus flavus*, in agroecosystem, 576
—maize bushy stunt phytoplasma, in Brazil, 957N
—northern leaf blight: partial resistance and *Ht* interaction, 277
—Pythium root rot, soil factors, 475
—red root rot, Delaware and Maryland, 232N
—silk cut, kernel integrity, 439
—sweet, bacterial leaf blight, 1293
Corona, R. M. C., 228N
Corral-Garcia, M. R., 337
Correll, J. C., 1334N
Cortesi, P., 922
Cortinas-Escobar, H. M., 831N
Corylus avellana, filbert blight, resistance analysis, 388
Cotton
—*Rhizoctonia solani* AG-7, in Georgia, 832N
—root-knot nematode, Fusarium wilt complex, nematicides, 66
—seedling disease: cultivar resistance and seed treatments, 1085; seed treatments for, 766
—Verticillium wilt, potassium in leaf petiole effect, 1089
Cotty, P. J., 911
Cover photo
—barley smut, July
—basil gray mold, February
—blueberry shoestring virus, October
—Botrytis blight, in coneflower, December
—broad bean wilt virus, on buckwheat, May
—brown rot, on prune, December
—cassava anthracnose, October
—chlorotic mottle in begonia, November
—citrus bacterial spot, November
—coca wilt and leaf drop, May
—coffee shoot blight, March
—corn bacterial leaf blight, November
—cucumber, downy mildew, September
—*Fusarium moniliforme* on corn, June
—grapevine Kober stem grooving, September
—grapevine leafroll virus, July
—honeydew bacterial fruit blotch, June
—lettuce corky root, October
—Papaya leaf curl, November
—peanut early leaf spot, March
—*Phomopsis* on peach, September
—Phytophthora blight on eggplant, July
—Phytophthora crown and root rot of sage, August
—pine shoot blight, February
—plum pox virus on *Prunus*, April
—potato russet scab, August
—potato rust, May
—raspberry gray mold, April
—rosemary Rhizoctonia aerial blight, July
—savin juniper dieback, January
—scab, of spring barley, December
—soybean sudden death syndrome, June
—strawberry fruit rot, September
—sugarbeet root rot, January
—sugarcane yellow leaf virus, January
—*Thanatephorus cucumeris* on sugarbeet, March
—tobacco root rot, February
—tomato yellow mottle virus, December
—*Verticillium* on pepper, April
—*Xanthomonas campestris*, on asparagus tree fern, August
Cowgill, W. P., Jr., 825
Cowpea
—diseases in Uganda, cropping system, 465
—Sphaceloma scab, resistance inheritance and sources, 1395
Cowpea aphid-borne mosaic virus, on commercial cowpea, first report, 959N
Cox, T. S., 582
Creamer, R., 63
Credi, R., 1288
Crescenzi, A., 711
Cronartium quercuum, on loblolly pine,.resistance factors, 597
Cropping system, cowpea diseases in Uganda, 465
Cryphonectria parasitica, on oak, radial growth effect, 369
Cucumber, downy mildew, control with polyethylene, 999
Cucumber mosaic virus
—on amethyst sea holly, canna, and columbine, in Ohio, 1333N
—on cowpea, blackeye cowpea mosaic virus synergism, 231N
—on maidenhair fern, 1333N
—multiple virus inoculation, 733
—on pepper, breeding lines and tolerance, 185
—subgroups I and II, detection in Argentina, 695N
Cucumis melo, Acidovorax avenae, on fruits, 694N
Cucurbit aphid-borne yellows virus, in Lebanon, 1331N
Cucurbita maxima, crown, root, and fruit rot, in Spain, 1216N
Culbreath, A. K., 1410
Cummings, T. F., 103, 1199
Cunfer, B. M., 427
Cunningham, M., 1094N
Curvularia spp., on striga seeds, in Nigeria, 832N
—*C. lunata,* on cassava, first report, 112N
Cyclamen persicum, anthracnose, in Florida, 227N
Cylindrocladium spp.
—*C. colhounii,* host range, 1333N
—*C. parasiticum,* on peanut, chemical control,236
Cymbidium mosaic virus, detection on Thai orchids, 167
Cynodon dactylon, white leaf disease, phytoplasma in Italy, 862
Czerwenka-Wenkstetten, I. M., 832N

Dactylis glomerata, choke, in Oregon, 1335N
Dafalla, G., 656
Dagityar, N., 1203
Dal Bó, E., 230N
Dale, J. L., 669
Dally, E. L., 301, 957N
Damsteegt, V. D., 312N, 1231
d'Aquino, L., 711
D'Arcy, C. J., 1236
Darlington, L. C., 501, *681*
Datnoff, L. E., 1127, 1214N
Daub, M. E., 1220
Daughtrey, M. L., 1220
Daugrois, J., 696N
Davenport, T. L., 509
David, A., 489
Davis, D. D., 369
Davis, J. M., 1057
Davis, M. J., 696N
Davis, R. E., 301, 957N
Davis, R. M., 601, 766, 831N, 1085, 1095N
de Barros, E. G., 996
de Blas, C., 112N, 830N, 1215N
de Carvalho, G. A., 996
Deck, S. H., 236
Deep, I. W., 475
Défago, G., 492
de Klerk, A., 958N
de Lapeyre de Bellaire, L., 1378
Delécolle, B., 656
Delphinella balsameae, on *Abies lasiocarpa*, in Vermont, 229N
Dendroctonus frontalis, on southern pines, blue-stain fungus relation, 942
Deneke, C. F., 89
de Paula Júnior, T. J., 996
Derrick, K. S., 551N, 1196
Desjardins, A. E., 556
DeVay, J. E., 1089
De Villiers, E. E., 455
de Villiers, G., 481
Diab Al-Arab, H. G., 112N
Diaporthe phaseolorum, on soybean
—outbreak in Argentina, 1215N
—*Phomopsis longicolla* distinguished from, 1143
Díaz, J. A., 1461N
Díaz-Mínguez, J. M., 312N
DiBonito, R., 230N
Didymella bryoniae, on watermelon, in California, 1331N
Di Giambattista, G., 960N
Dillard, H. R., 71, 228N, 677, 1439
Diplodia mutila, on savin juniper
—cover photo, January
—in Pennsylvania, 111N
Disease warning system, wetness duration estimation, remote, validation, 825
Dissanayake, N., 587
Dixon, A. G. O., 695N
Dodds, J. A., 525
Domier, L. L., 1236
Doney, J. C., Jr., 99
Dorrance, A. E., 1206
Dotan, S., 749
Douglas, S. M., 229N, 729
du Toit, F. J., 175
du Toit, L. J., 1293
Dubois, C., 1378
Dudai, N., 1077
Duffus, J. E., 229N, 550N
Dunez, J., 1231
Durio zibethinus, patch canker, in Brunei Darussalam, 113N

Eastburn, D. M., 356
Echinacea spp.
—*E. angustifolia, Fusarium oxysporum* on, 227N
—*E. purpurea,* stem rot, 1093N
Echinocloa spp., *Exserohilum monoceras* on, dew and temperature effect, 629
Edema, R., 465
Egan, A. F., 1173
Eggplant, rust, 1093N
Eisner, A. D., 1057
Elad, Y., 36
El Ghaouth, A., 204
El-Gholl, N. E., 1333N
El-Kholi, M. M., 399
Ellerbrock, L. A., 138
Ellett, C. W., 1331N
Elliott, M. L., 831N, 1127
Ellis, M. A., 77
Ellis, P., 481
Elmer, W. H., 635, 957N, 1077

El-Neshawy, S., 399
Elson, M. K., 647
Emmatty, D., 312N
Endocronartium harknessii, on ponderosa pine, susceptibility in Pennsylvania, 1173
Endophytes, grass, protective, 430, *956*
Epichloë spp., on grasses, 430, *956*
—*E. typhina,* on orchardgrass, in Oregon, 1335N
Erkilic, A., 1214N
Erlich, O., 1203
Errata
—vol. 80 (1996), no. 10, pp. 1109-1112, *305*
—vol. 81 (1997), no. 5, p. 430, *956;* no. 5, p. 450, *824;* no. 5, p. 501, *681*
Érsek, T., 1094N
Erwinia carotovora
—on broccoli, sprinkler irrigation effect, 614
—on tomato, new host in Argentina, 230N
Erysiphe sp., on tomato: in Connecticut, 229N; in greenhouse, in New Jersey, 227N
—*E. cruciferarum,* on broccoli, first report in California, 1093N
—*E. heraclei,* on celery, first report in North America, 231N
Erythroxylum coca, Fusarium wilt, new strain, 501, *681*
Espino de Paz, A. I., 1096N
Even, S., 749
Exserohilum spp.
—*E. monoceras,* on *Echinocloa* spp., dew and temperature effect, 629
—*E. turcicum:* on corn, partial resistance and *Ht* interaction, 277

Fagbemissi, R. 112N, 1332N
Faggioli, F., 423N
Faria, J. C., 423N
Farnham, M. W., 946
Faurie, R., 958N
Fayya, A., 1331N
Feldmann, P., 696N
Fernández-Trujillo, J. P., 880, 958N
Fertilizer, soybean disease, effects in Alabama, 1459
Fescue, endophytes on, toxicosis to livestock, 430, *956*
Figueira, A. R., 1236
Filatov, V., 489
Filippi, M. C., 351
Fisher, J. R., 1214N, 1331N
Flaishman, M. A., 550N
Flores, D., 1299
Floriculture, tospoviruses in greenhouse industry, 1220
Florini, D. A., 465
Focus, 3, 123, 235, 315, 429, 555, 699, 835, 963, 1099, 1219, 1339
Fokunang, C. N., 695N
Forbes, G. A., 311N
Ford, E. J., 501, *681*
Forti, E., 1214N
Fortnum, B. A., 227N
Fraxinus spp., ash yellows phytoplasmas on, tolerance and rootstock-scion combinations, 395
Frederickson, D. E., 761, 959N
Freeman, S., 749
French, R. C., 250, 1070
Fresno, J., 112N
Friedmann, M., 1425
Fry, B. A., 836
Fry, W. E., 311N, 1349
Fuchs, J.-G., 492
Fukunishi, T., 733
Fumigant
—ethyl bromide, ozone and agriculture relation, 964
—soil, @metham-sodium, for potato Verticillium wilt, 773
Fungicides (general) (see also Fungicides, specific)
—citrus gummosis and root rot, tree health effect, 1384
—copper, for citrus black spot in South Africa, 851
—on corn, hybrid seed production, economic analysis, 415
—corn leaf spot, timing and frequency factors, 41
—cotton seed treatment, 766
—demethylation inhibitors, for dollar spot on bentgrass, 1259
—grape powdery mildew, sensitivity in California, 293
—lettuce, bacterial leaf spot, seed treatment, 1443
—resistance in *Uncinula necator,* on grape, 1187
—for rice blast control, seed treatments, 351
—seed treatments, cotton to seedling disease, 1085
—Stagonospora blotch on wheat, 1279
—strawberry anthracnose, greenhouse and field, 749
—on tomato, for anthracnose, early blight, and leaf spot, 677
—tomato black dot, foliar applications, 1439
—*Venturia inaequalis,* isolate sensitivity in Lebanon, 112N
Fungicides (specific) (see also Fungicides, general)
—Benlate, phytotoxicity in petunia, factors, 743
—benomyl, ergot on sorghum, 761
—benzimidazole, for dollar spot on bentgrass, 1259
—benzimidazole and dicarboximide, *Botrytis* sensitivity in greenhouses, 729
—chlorothalonil, tomato black mold control, 601
—dicarboximide, *Sclerotinia* on lettuce, resistance, 148
—imazalil, citrus green mold control, 1299
—metalaxyl: *Phytophthora infestans* resistant isolates, 1093N; potato late blight resistance, in Morocco, 831N
—methyl bromide, potato wilt, 469
—propiconazole and fenbuconazole, *Cladosporium* sensitivity to, 163
—tebuconazole, peanut leaf and root diseases, 927
—thiabendazole, *Colletotrichum musae* on banana, resistance to, 1378
—vinclozolin, for *Sclerotinia* on alfalfa, 13
Fusarium spp.: on asparagus, incidence, 957N; on corn, stalk and root rot, bacterial seed treatment, 450, *824;* on pea, in Scandinavia, 171; on wheat and barley, scab epidemics, 1340
—*F. graminearum:* on corn, resistance screening, aeroponics system, 175; on wheat seed, storage effect, 159; on spring barley, cover photo, December
—*F. moniliforme,* on corn: cover photo, June; seed infection and inoculation method, 211; symptomless infection, 723
—*F. oxysporum:* on basil, outbreak in Florida, 1214N; on basil, resistance, 1077; on bean, pathogenicity in Spain, 312N; on carnation, resistance induced by race 2, 777; on coca, cover photo, May; on cotton, root-knot nematode complex, 66; on *Erythroxylum coca,* new strain, 501, *681;* on melon, pathogenic races in New York, 592; on muskmelon, new race in California Central Valley, 1095N; on purple coneflower, first report, 227N; on sugar beet, cover photo, January; on sugar beet, isolate variation and and vegetative compatibility, 85; on sumac, wilt, 1333N; on tomato, resistance induced by nonpathogenic strain, 492
—*F. solani:* on soybean, cover photo, June; on soybean, cultivar reaction, 664; on soybean, sudden death syndrome, 566; on soybean, sudden death syndrome, germplasm evaluation, 515; on soybean, sudden death syndrome, in Iowa, 719; on soybean, sudden death syndrome and nomenclature, 259; on squash, race 1 in Spain, 1216N

Gadoury, D. M., 922
Gaeumannomyces spp.
—*G. graminis,* on grasses and rice in Florida and Texas, cross pathogenicity, 1127
—*G. incrustans,* on bluegrass, growth factors, 873
Gai, J., 107
Gaillardia grandiflora, stem and crown rot, in California, 1334N
Gallenberg, D. J., 696N, 1340
Gamble, J. W., 1123
Gamliel, A., 469
García-Jiménez, J., 1216N
Garibaldi, A., 124
Garlic, GarV-type virus, detection, in Argentina, 1005
Garr, S. S., 936
Gatabazi, M., 445
Gattuso, S., 1215N
Gaudiel, R. G., 311N, 1093N
Gauhl, F., 1335N
Gay, J. D., 885, 897, 1096N
Gazania spp., lettuce mosaic virus on, new host in California, 641
Gerbera
—*Botrytis cinerea,* pathogenicity variation, 781
—white rust, first report in North America, 228N
Gergerich, R. C., 696N
Gerik, J. S., 550N
Gibb, K. S., 254
Gilbert, J., 159
Gilbertson, R. L., 312N, 551N, 641, 831N, 892
Gilby, G. A., 1331N
Gill, B. S., 582
Gitaitis, R. D., 551N, 885, 897, 1096N
Giuchedi, L., 154
Gleason, M. L., 272, 825
Gliocladium roseum, antagonist to *Botrytis cinerea* in crops, 316
Golino, D. A., 799, 1094N
Goodell, N., 1454
Goodwin, S. B., 1349
Gorbet, D. W., 1410
Gordon, T. R., 592 , 1095N
Gottwald, T. R., 1305
Gould, A. B., 873
Gowda, S., 1066
Goyer, C., 901
Gracia, O., 695N
Graham, J. H., 1305
Graminella sonora, sorghum stunt mosaic virus vector, 63
Grape
—closterovirus association, serological detection, 802
—Kober stem grooving: cover photo, September; first report in USA, 1094N
—powdery mildew: cleistothecia as inoculum source in Italy, 922; fungicides for, sensitivity, 293; rugose wood disease, sources in Italy, 1288; temperature and triadimefon effect, fungicide resistance, 1187
Grapevine leafroll virus
—cover photo, July
—detection with serology and biological assays, 799

—on grapevine in Australia, temporal and spatial analysis, 625
—mealybug transmission in field, 283
Grapevine virus A, first report in Spain, 830N
Grau, C. R., 199
Grau, O., 695N
Graves, W. R., 960N
Green, M., 222
Green, S. K., 111N
Greer, C. A., 1094N
Gretzmacher, R., 832N
Grey, W. E., 113N
Griffin, L. L., 587
Griffith, C. S., 545
Griffiths, H. M., 395
Grinstein, A., 469
Grisham, M. P., 189
Grogan, J., 653
Gubler, W. D., 293, 1187
Guerber, J. C., 1334N
Guerra, O., 1095N
Guerrero, C., 957N
Guevara, R. G., 1095N
Gullino, M. L., 124
Gulya, T. J., 111N
Gunn, L. V., 348
Guo, J.-Q., 570
Gutierrez, W. A., 604
Guzman, P., 312N, 831N
Gwynne, B. J., 601, 1095N

Haahtela, K., 1317
Habili, N., 625
Hachey, J., 1011
Hadar, E., 550N
Hadidi, A., 154, 711
Hagan, A. K., 927
Hakiza, J. J., 277
Hallak-Herr, E., 550N
Halsted, Byron David, experiment station history, 1889-1900, 545
Hamilton, G. H., 677
Hamm, P. B., 103, 113N
Hammerschmidt, R., 715
Hansen, E. M., 1400
Hansen, J. M., 664
Harbaugh, B. K., 1334N
Harding, R. M., 669
Harkin, J. M., 773
Harkins, D., 1023
Harman, G. E., 1132
Harper, D., 1454
Harrison, N. A., 230N
Hartman, G. L., 515, 1112, 1143
Harveson, R. M., 85
Harvey, T. L., 1161
Hausbeck, M. K., 715, 1167
Hazanovski, M., 1203
Hazzard, R. V., 825
He, X., 63
Hebbar, P. K., 450, *824*
Hedera helix, root rot, stem, and leaf blight, first report, 960N
Heidel, G. B., 1070
Heimann, M. F., 424N
Hein, G. L., 250
Helguera, M., 1005
Hell, K., 1323
Helminthosporium solani, on potato, biocontrol, 647
Helms, T. C., 664
Hemphill, D. D., Jr., 614
Henderson, D. M., 959N
Henson, D. J., 1405
Hershberger, W., 932
Hershman, D. E., 1100
Herzog, G. A., 551N
Hess, N. J., 942
Hewings, A. D., 485
Hibiscus latent ringspot virus, seed transmission, 1082
Hidalgo, H., 1015
High Plains virus, on corn, complex with wheat streak mosaic virus, 195
Hinton, D. M., 723
Hj Hamdan, F., 113N
Hodge, N. C., 847
Hoffman, T. K., 497
Holbrook, C. C., 1429
Holtz, B. A., 519
Hong, C. X., 112N, 519
Hord, M., 374
Horseradish, Verticillium wilt, inoculation methods for resistance, 356
Horst, R. K., 1432
Howard, R. J., 311N, 1011, 1093N, 1461N
Howea forsteriana, leaf blight, pathology and morphology, in Hawaii, 298
Howell, D. R., 911
Howell, W. E., 329
Hoy, J. W., 587, 1247
Hoyos, G. M., 576
Hu, J. S., 1150
Huang, Y. H., 515, 1112
Hubbard, J. C., 148
Hughes, C., 936
Hughes, J. d'A., 1335N
Hung, T.-H., 550N
Hung, Y. C., 885, 897
Hunt, R. S., 1053
Hussien, T., 582
Hwang, S. F., 311N, 1093N, 1461N
Hyakumachi, M., 1155
Hymowitz, T., 1112

Ikotun, T., 695N
Impatiens necrotic spot virus
—on begonia, cover photo, November
—on flower crops in greenhouses, 1220
—on lisianthus, in Florida, 1334N
Infantino, A., 960N
Inglis, D. A., 1206
Inonotus tomentosus, on spruce, annual spread rate, 1053
Instructions to authors, 114
Irrigation, ebb-and-flow subirrigation, *Phytophthora* on vinca, 89
Isakeit, T., 694N
Ito, S., 167
Iwaro, A. D., 619

Jensen, S. G., 195, 1161
Johnson, D. A., 103, 1199, 1391
Johnson, K. B., 383, 388
Johnson, W. C., III, 897
Johnston, S. A., 227N, 677
Jones, J. B., 232N, 694N, 917
Jones, J. P., 942
Jones, R. (Minn.), 1340
Jones, R. K. (N.C.), 1220
Jones, S. S., 1181
Jordá-Gutiérrez, C., 1096N
Jordan, A. P., 597
Joseph, J., 673
Juglans nigra, cankers on, 830N
Junaidy, M. A. H. M., 113N
Juniper, branch dieback, in Pennsylvania, 111N
Juzwik, J., 410

Kaeppler, S. M., 195
Kafkafi, U., 1264
Kageyama, K., 1155
Kaiser, W. J., 809, 1284
Kameya-Iwaki, M., 167
Kaniewski, W. K., 1447
Karadimos, D. A., 960N
Karlatti, R. S., 1215N
Katan, J., 469, 1264
Kato, S., 301
Katovich, S., 830N
Kawchuk, L. M., 1011
Kearing, S. A., 113N
Keever, G. J., 89
Keinath, A. P., 946
Kelley, R., 229N
Kema, G. H. J., 424N
Kendall, T. L., 1070
Kenyon, L., 1096N
Kerns, M. R., 460, 1293
Kerssies, A., 781
Keskula, E. N., 348
Khalid, S., 1333N
Khan, M. A., 769
Khan, S. H., 958N
Khonje, P., 1096N
Kimble, K., 831N
Kimbler, D. L., 311N
King, R. R., 836
King, S. B., 959N
King, W. T., 77
Kirby, H. W., 175
Kirkpatrick, T. L., 66
Klein, L., 469
Kline, A. S., 231N, 959N
Knudsen, G. R., 288
Ko, M. P., 607
Kobayashi, K., 1005
Koev, G., 700
Kohls, C. L., 1193
Koike, S. T., 148, 231N, 552N, 641, 892, 959N, 1093N, 1094N, 1331N, 1334N
Kokkola, M., 1317
Kolb, F. L., 497
Kolmer, J. A., 267, 505, 757
Kommineni, K. V., 855
Kope, H. H., 1095N
Korsten, L., 455
Kortemaa, H., 1317
Kosaka, Y., 733
Kotzé, J. M., 455, 851
Krausz, J. P., 1127
Krishna Prasad, S., 673
Krupinsky, J. M., 1027, 1032, 1037
Kuhlman, E. G., 597
Kuhn, D. N., 1023
Küsmenoglu, I., 1284
Kuznia, R. A., 245

Labonne, G., 1231
Lachman, O., 489, 1425
Laing, M. D., 41
Lakhdar, R., 831N
Lamboy, J. S., 228N
LaMondia, J. A., 229N, 729
Lang, M. L., 530
Langham, M. A. C., 696N
Langhans, R. W., 1432
Lapidot, M., 185, 1425
Lapierre, H., 570
Lara, S. P., 509
Larsson-Wikström, M., 171
Latin, R. X., 739, 825, 1167
Lawson, E. C., 1447
Leahy, R. M., 960N
Lecoq, H., 656, 1331N
Lee, I.-M., 301, 424N
Lee, R. F., 1196
Legard, D. E., 230N
Lemna gibba, Pythium myriotylum on, in Israel, 550N
Lens culinaris, Ascochyta lentis on, *A. fabae* comparison, 809
Leptographium spp., on southern pines, southern pine beetle relation, 942
Leptosphaeria korrae, on bluegrass, growth factors, 873
Lespedeza, tar spot, episodic dynamics, 535

Letter to the editor, *Septoria* and *Stagonospora* taxonomy and nomenclature, 427
Lettuce
—bacterial leaf spot, resistance and seed treatment, 1443
—*Sclerotinia minor* on, dicarboximide resistance, in California, 148
Lettuce chlorosis virus, on sugar beet, in California, 550N
Lettuce mosaic virus, on *Gazania* spp., in California, 641
Leucostoma cincta, on sweet cherry, canker expansion, 1391
Leuschner, K., 761
Levy, L., 329, 1231
Lewis, J. A., 450, *824*
Li, D.-W., 316
Liang, L. Z., 1214N
Lindholm, P., 1317
Lipps, P. E., 277, 475
Lisianthus, impatiens necrotic spot virus, in Florida, 1334N
Little, E. L., 892
Liu, H.-Y., 229N
Liu, J. Q., 505, 757
Liu, X. P., 1150
Livescu, L., 469
Lo, C.-T., 1132
Loebenstein, G., 489
Lommel, S. A., 1070
Long, D. L., 306
Lorbeer, J. W., 138
Loreti, S., 423N
Loria, R., 836
Louie, R., 228N
Loux, M. M., 787
Ludy, R. L., 614
Lumsden, R. D., 450, *824*
Lundeen, P., 719
Lundquist, J. E., 57
Luo, Y., 404
Lynch, D. R., 1011

Ma, H., 27
Ma, R. Z., 1143
Macaya-Lizano, A. V., 374
MacDonald, J. D., 959N
MacKenzie, D. J., 222
Mackey, B. E., 379, 1299
MacNab, A. A., 753
Macrophomina phaseolina, on soybean, field screening, 363
Macroptilium lathyroides, geminiviruses, genetic diversity from Jamaica, 1251
Madden, L. V., 77
Madritch, M., 1042
Magnaporthe poae, on bluegrass, growth factors, 873
Mahgoub, H. A., 656
Mahmood, T., 250
Main, C. E., 1057
Maize dwarf mosaic virus, on sweet corn, resistance, 460
Maize stripe virus, in Thailand, identification, 228N
Maletta, M. J., 825
Malik, K. A., 958N
Malvick, D. K., 1193
Manadilova, A., 489
Maness, N. E., 795
Mango, tip dieback, resistance in Florida, 509
Mansoor, S., 958N
Mansour, M. F., 1299
Mao, W., 450, *824*
Marçon, A., 195
Marcone, C., 862
Margosan, D. A., 379, 1299, 1405
Markham, P. G., 958N
Marshall, D. S., 582
Marssonina spp.
—*M. brunnea,* on hybrid poplar, first report in Pacific Northwest, 231N
—*M. salicicola,* on weeping willow, in Greece, 960N
Martin, A. B., 348
Martin, S. B., 227N
Martin, T. J., 1161
Martinez, F. A., 228N
Martínez, J. A., 958N
Martinez, Y., 1215N
Martinson, C. A., 415
Matejka, J. C., 1384
Matheron, M. E., 1384, 1429
Mathews, D. M., 525
Matteson Heidenreich, M. C., 337
Maw, B. W., 885, 897
Maxwell, D. P., 111N, 423N, 1251
May, D. M., 601
McCarthy, M. K., 501, *681*
McClenahen, J. R., 369
McDonald, G., 897
McGee, D. C., 576
McGovern, R. J., 1334N
McGraw, R. L., 535
McLaughlin, W. A., 1251
McLean, M. A., 222
McLeod, A., 958N
McMillan, R. T., Jr., 509, 960N
McMullen, M., 1340
McVey, D. V., 306
Mehlenbacher, S. A., 388
Mehmood, T., 1333N
Mehta, P., 1066
Melaleuca quinquenervia, rust epidemic, in Florida, 831N
Melgar, J. D., 653
Mellbye, M. E., 1335N
Meloidogyne spp., on sunflower, in Mozambique, 1333N
—*M. incognita:* on cotton, Fusarium wilt complex, 66; on ornamentals, container base effect, in Hawaii, 607
Melon (see also Muskmelon)
—Fusarium wilt, pathogenic races, 592
—*Monosporascus cannonballus,* in Saudi Arabia, 1215N
—sudden wilt, pathogens in Israel, 1264
—vine decline, in Honduras, 696N
Melon rugose mosaic virus, seed transmission, in Sudan, 656
Melton, T. A., 604
Mendez Pérez, P., 1096N
Mendoza, E. E. A., 695N
Mentaberry, A., 1005
Menzies, J. G., 1328
Meriles, G., 1332N
Merrill, W., 229N, 230N, 231N, 830N, 1173
Mew, T. W., 49
Meyer, J. M., 410
Michael, I. F., 1299
Michailides, T. J., 112N, 519, 550N, 1416
Microbotryum violaceum, on Caryophyllaceae, haplotypes and hosts, 936
Mihail, J. D., 535
Mikunthan, G., 832N
Miller, J. S., 103
Miller, M. E., 694N, 696N
Miller, R. M., 4
Miller, R. V., 501, *681*
Miller, S. A., 1334N, 1443
Miller, W. A., 700
Milus, A. E., 180
Milus, E. A., 1279
Mink, G. I., 329
Minuto, G., 124
Mirkov, T. E., 957N
Miyao, E. M., 601
Model, watermelon anthracnose, temperature and leaf wetness effect, 739
Moënne-Loccoz, Y., 492
Mogen, B., 301
Mohan, B. R., 700
Mohan, K. S., 113N
Molina, A., 112N
Molinar, R. H., 1094N
Momol, E. A., 337
Monilinia fructicola
—on French prune, fruit-to-fruit contact effect, 1416; cover photo, December
—on nectarine, thinned fruit as inoculum source, 519
—on peach fruit, calcium salt effect, 399
Monis, J., 802
Monosporascus cannonballus, on melon, in Saudi Arabia, 1215N
Monroe, J. S., 739
Montes G., N., 831N
Monyo, E. S., 959N
Moody, J. T., 830N
Moore, L. W., 905
Moorman, G. W., 111N
Moreau, J.-P., 570
Morehart, A. L., 831N, 1093N
Moreira, M. A., 996
Morgan, C. T., 501, *681*
Morgan, D. P., 519, 1416
Moriones, E., 1461N
Morra, M. J., 288
Motes, J. E., 795
Motta, E., 1214
Moya, M. J., 1216N
Moyer, J. W., 1220
Msikita, W., 112N, 1332N
Mucor piriformis, on cherry, postharvest, 550N
Mukerji, S., 222
Mullen, R. J., 601
Mullinbix, B. G., 530
Mulroony, R. P., 1093N
Múnera, G., 552N
Munkvold, G. P., 211, 556, 830N
Murray, M. S., 1400
Murray, T. D., 1181
Muskmelon (see also Melon)
—Fusarium wilt, new race in California Central Valley, 1095N
—vine decline diseases, in Guatemala, 694N
Mycosphaerella spp.
—*M. citri,* on orange, control in Costa Rica, 1015
—*M. fijiensis,* on banana: in Bolivia, 1332N; temperature, genotype, and geography, 1139
Mycotoxin
—aflatoxin: on peanut, genotype resistance, 1429; on preharvest maize, in Benin, 1323
—fumonisins, in corn, 556
—grass endophytes, 430, *956*
Myrothecium roridum, on striga seeds, in Nigeria, 832N
Myzus persicae, potato leafroll virus vector, epidemiology, 1311

Nachmias, A., 469
Nacobbus aberrans, on tomato, resistance, 217
Nadeem, A., 1333N
Nagaraju, N., 673
Nahon, S., 1425
Nakawuka, C. K., 1395
Nakhla, M. K., 111N, 1251
Nameth, S. T., 1214N, 1331N, 1333N
Narváez, H., 552N
Nattrassia mangiferae, on cassava, in West Africa, 1332N
Navas-Castillo, J., 1461N
Nectarine
—brown rot, thinned fruit as inoculum source, 519
—postharvest decay, hot water and ethanol for control, 1405

Nelson, B. D., 664
Nelson, E. B., 1132
Nelson, M. R., 911
Nelson, R. L., 515
Nematicide, root-knot nematode, Fusarium wilt complex on cotton, 66
Nematostoma artemisiae, on *Artemisia,* first report in United States, 424N
Neotyphodium spp., on grasses, 430, *956*
Nester, S. E., 932
Newby, D. L., 232N
Newcombe, G., 231N
Nickell, A. D., 953
Nickell, C. D., 953
Nickerson, R., 399
Niederholzer, F. J. A., 96
Nielsen, J., 1328
Nigh, E. L., Jr., 957N
Nishii, H., 167
Nizani, Y., 749
Noel, G. R., 515
Norman, D. J., 227N, 847, 1177
Norman, M. T., 228N
Nowell, D. C., 111N
Nowierski, R. M., 113N
Ntahimpera, N., 71
Nunez, J. J., 766
Nutter, F. W., Jr., 272, 415, 625
Nuzzaci, M., 711
Nyvall, R. F., 1193

Oak
—basal cankers, radial growth effect, 369
—wilt fungal mats, colonization in Minnesota, 410
Ocimum basilicum
—*Fusarium oxysporum,* resistance, 1077
—Fusarium wilt, outbreak in Florida, 1214N
O'Donnell, J., 231N
Odontoglossum ringspot virus, detection on Thai orchids, 167
Odvody, G. N., 439, 959N
O'Garro, L. W., 978
Ohyama, A., 1155
Okamoto, D., 592
Okuda, S., 301
Olanya, O. M., 576
Oleskevich, C., 1095N
Olive, root pathogens, in Spain, 1216N
O'Mara, J., 1333N
O'Neill, T. M., 36
Onion
—bacterial streak and bulb rot, diagnostic medium, 897
—leaf blight: alternative hosts and resistant genotypes, 978; seed stalk rot and bulb decay, in Georgia, 1096N
—pink root, resistance in field in New York, 138
—soilborne pathogenic fungi, control, 885
Onsando, J. M., 133
Ophiostoma piceae, on oak, mat colonization in Minnesota, 410
Oplinger, E. S., 199
Oramas, P., 1095N
Orange
—citrus greasy spot, control in Costa Rica, 1015
—green mold, postharvest, control methods, 379
—rind stippling, copper fungicide effect, 851
Ordoñes, M. E., 311N
Ornamentals, certification practices, nematode diseases, 607
Orum, T. V., 911
Osterbauer, N. K., 388
Ostry, M. E., 830N, 1461N
Otrosina, W. J., 942
Oyarzun, P. J., 311N

Ozone, agriculture and methyl bromide relation, 964

Pacumbaba, R. O., Jr., 1459
Pacumbaba, R. P., 1459
Palmer, C. L., 1432
Pan, Y.-B., 189
Pantoea spp.
—*P. agglomerans:* cotton lint rot, in Georgia, 551N; on pearl millet, in Zimbabwe, 959N
—*P. ananas,* on onion, diseases caused by, 1096N
Papaya, leaf curl
—cover photo, November
—leaf curl, in Pakistan, 1333N
Pappu, H. R., 1410
Paran, I., 185
Pardo-Schultheiss, R. A., 983
Pares, R. D., 348
Parker, S. K., 272, 825
Parks, C. G., 551N
Pasberg-Gauhl, C., 1335N
Passiflora latent carlavirus, on *Passiflora* in Australia, 348
Pastor-Corrales, M. A., 445
Pataky, J. K., 460, 1293
Paulitz, T. C., 229N
Paulraj, L. P., 978
Pazdernik, D. L., 1112
Pea
—Aphanomyces root rot, inhibited by *Brassica napus* seed meal, 288
—foot and root rot pathogens, prevalence in Scandinavia, 171
—viruses, survey and detection in Pakistan, 343
Peach
—*Monilinia fructicola* on, calcium salt effect, 399
—postharvest, atmosphere packaging effect, 880
—postharvest decay: *Acremonium* spp., 958N; hot water and ethanol for control, 1405
—shoot blight, pathogenicity and infection courts, 983
Peach latent mosaic viroid
—on plum, in Italy, 423N
—in stone fruits, detection, 154
Peanut
—*Aspergillus* and aflatoxin, resistant genotypes, 1429
—crop and disease advisories, losses and pesticides, 236
—leaf spot and southern stem rot, tebuconazole applications, 927
—net blotch and necrotic warts, on pods, 958N
—Sclerotinia blight, crop pruning effect, 990
—tomato spotted wilt virus on, field response, 1410
—web blotch, first report in Sri Lanka, 832N
Pear
—phytoplasma on, detection in Australia, 254
—scab, dolomitic lime effect on asci, 96
Pedersen, W. L., 175, 1143
Peery, A. B., 530
Peet, F. G., 1053
Peichowski, K., 227N
Pelosi, R. R., 18
Pelter, G. Q., 103
Peng, G., 316
Penicillium digitatum, on citrus, imazalil for control, 1299
Pennisetum glaucum
—*Pantoea agglomerans* on, in Zimbabwe, 959N
—rust, temperature and light effect on spore germination, 1049
Pennypacker, S. P., 333, 753
Pepper vein banding virus, on chili pepper in India, 673

Pepper, W. D., 597
Peral, R., 1095N
Peralta, E. L., 1215N
Percich, J. A., 1193
Peretz, Y., 469
Peridermium harknessii, on ponderosa pine, pathosysystem infection factors, 57
Perlin, M. H., 936
Pernezny, K., 232N, 791
Peronospora spp.
—*P. sparsa,* on rose, in KwaZulu Natal, South Africa, 695N
—*P. tabacina,* spore release, flow visualization, wind tunnel, 1057
Perry, T. J., 942
Persson, L., 171
Peterson, G. L., 1370
Peterson, P. D., Jr., 545
Petunia, Benlate phytotoxicity, factors, 743
Pfender, W. F., 1335N
Phaseolus vulgaris
—anthracnose: inheritance, 996; tillage practices, 71
—Fusarium wilt, pathogenicity in Spain, 312N
—soilborne fungi on, Rwanda, 445
Phialophora gregata, in soybean: population dynamics in residue, 199; resistance in China, 953
Phillips, T. C., 430, *956*
Phipps, P. M., 236
Phoma spp.
—*P. arachidicola,* on peanut, first report in Sri Lanka, 832N
—*P medicaginis,* on pea, in Scandinavia, 171
—*P. terrestris:* on corn, in Delaware and Maryland, 232N; on onion, control, 885; on onion, resistance in field in New York, 138
Phomopsis spp.: on peach, cover photo, September; on peach, pathogenicity and infection courts, in Georgia, 983
—*P. longicolla:* on cowpea, pods and seeds in Mississippi, 693N; on soybean, *Diaporthe phaseolorum* distinguished from, 1143
Phyllachora lespedezae, episodic disease dynamics, in lespedeza, 535
Phyllosticta multicorniculata, on *Abies,* in Northeastern USA, 230N
Phytophthora spp.
—*P. cinnamomi,* on *Hedera helix,* first report, 960N
—*P. citrophthora,* on citrus, seasonal dynamics, fungicides, 1384
—*P. cryptogea,* on sage: in California, 959N; cover photo, August
—*P. infestans:* on eggplant, cover photo, July; late blight, origin in South America Andes Mountains, 682; mating type A2 in Ecuador, 311N; metalaxyl resistance, in Morocco, 831N; metalaxyl-resistant isolates, Delaware, 1093N on potato, A2 mating type in Hungary, 1094N; on potato, economic analysis in Washington and Oregon, 1995 epidemic, 103; on potato, greenhouse and laboratory screening methods, 1206; on potato and tomato, detection using PCR, 1042; on potato and tomato, epidemic re-emergence in USA and Canada, 1349; on potato, tomato, and pear melon in South America Andes Mountains, 682
—*P. lateralis,* on Pacific yew, susceptibility, 1400
—*P. megasperma,* on olive, in Spain, 1216N
—*P. palmivora,* on cacao, foliar and pod resistance, 619; on *Durio zibethinus,* in Brunei Darussalam, 113N
—*P. parasitica:* on citrus, seasonal dynamics and fungicides, 1384; on tobacco, race 0, resistance inheritance, 1269; on vinca, ebb-and-flow irrigation effect, 89

—*P. sojae:* new races, *Rps*1-d virulence, 653; on soybean, resistance, greenhouse technique, 1112
Phytoplasma
—amplification and restriction analysis for distinguishing groups, 301
—ash yellows, on *Fraxinus* spp., rootstock-scion combinations, 395
—aster yellows, purple coneflower as host, 424N
—on bermuda grass, detection in Italy, 862
—maize bushy stunt, on corn in Brazil, 957N
—on pear, detection in Australia, 254
—on strawberry, detection in Florida, 230N
Piazzolla, P., 711
Pike, K. S., 1311
Pilgeram, A. L., 501, *681*
Pilowsky, M., 185, 1425
Pine
—loblolly, fusiform rust, resistance factors, 597
—ponderosa, pine gall rust, susceptibility in Pennsylvania, 1173
Pineapple, mealybug wilt, closterovirus relation, in Hawaii, 1150
Pineapple closterovirus, distribution in Hawaii, immunoassay, 1150
Pinus spp.: blue-stain fungi, southern pine beetle relation, 942; shoot blight and cankers, morphotypes, 143
—*P. contorta,* shoot blight, in Nebraska, 311N
—*P. ponderosa,* western gall rust, pathosystem factors, 57
—*P. strobus,* needlecast, in Michigan, 231N
Pioli, R., 1215N
Pitblado, R. E., 825
Pitrat, M., 656
Pivonia, S., 1264
Planococcus citri, grapevine leafroll virus vector, field transmission, 283
Plasencia, J., 53
Plasmopara halstedii, on sunflower, in South Africa, 111N
Ploetz, R. C., 1332N
Ploper, L. D., 107
Plum, prune brown line disease, tomato ringspot virus relation, 855
Plum pox virus
—on *Prunus avium,* sweet cherry isolate, 711
—on *Prunus domestica,* resistance, 1231
—on *Prunus tomentosa:* cover photo, April; diagnostic host, 329
Plumley, K. A., 873
Poggi-Pollini, C., 154
Polston, J. E., 1334N, 1358
Polygonum fagopyrum, broad bean wilt fabavirus, first report, 959N
Ponz, F., 830N
Poplar, leaf and stem spots, in Pacific Northwest, 231N
Porchas, M., 1384
Porta-Puglia, A., 107
Portillo, R. J., 312N
Postharvest diseases, fruits and vegetables in the market, bacterial soft rot and *Salmonella,* 867
Postharvest pathology
—orange green mold, control methods, 379
—peach, fungal growth and atmosphere packaging, 880
—peach and nectarine fruit decay, hot water and ethanol for control, 1405
—tomato, fungicides for, in New York and New Jersey, 677
Postman, J. D., 111N
Potato
—black dot, incidence in Washington, 1199
—late blight: detection using PCR, 1042; economic analysis in Washington and Oregon, 1995 epidemic, 103; greenhouse and laboratory screening methods, 1206; metalaxyl resistance, in Morocco, 831N; origin in South America Andes Mountains, 682; re-emergence in USA and Canada, 1349
—powdery scab, first report in North Dakota, 693N
—scab: in Finland, 1317; silver scurf, biocontrol with microorganisms, 647; streptomycete host range, 901
—Verticillium wilt: immunoassay compared with culture plate method, 53; methyl bromide for, 469; soil factors and metham-sodium, 773
Potato leafroll virus
—coat protein gene effect, field spread, 1447
—cRNA probe for detection, 489
—green peach aphid role, 1311
Potato tuber necrotic ringspot virus, in Portugal, 694N
Potato virus Y
—hosts in Canary Islands, 1096N
—serotypes, geographic distribution, 481
Potter, J. W., 1331N
Powell, A. J., 99
Powell, C. A., 18
Powelson, M. L., 614
Prabhu, A. S., 351
Prado, D., 1215N
Pratt, R. C., 277
Pratylenchus spp.
—*P. fallax,* on turfgrass, in Ontario, 1331N
—*P. neglectus,* first report in soil in New York, 228N
Pretorius, Z. A., 423N, 424N
Prince, J. P., 301
Prom, L. K., 541
Prunus spp., *Trichohecium roseum* on, in California orchard, 112N
—*P. avium:* leaf spot, first report in Italy, 1214N; Leucostoma canker, canker expansion, 1391
—*P. domestica:* brown rot, fruit-to-fruit contact effect, 1416; transgenic, plum pox virus resistance, 1231
—*P. tomentosa,* diagnostic host for plum pox and other *Prunus* viruses, 329
Pscheidt, J. W., 383, 905
Pseudocercosporella herpotrichoides, on wheat, resistance identification, 1181
Pseudomonas spp.
—*P. syringae:* on celery, epidemiology and seed contamination, 892; on coffee, cover photo, March; on lilac, pathogenicity and culture bioassay, 905; on soybean, races in North Dakota, 541; on spotted knapweed, first report, 113N
—*P. viridiflava,* on onion, diagnostic medium, 897
Pseudoperonospora cubensis, on cucumber
—control in greenhouse with polyethylene, 999
—cover photo, September
Puccinia spp.
—*P. graminis,* on wheat and oats, races in United States in 1995, 306
—*P. pittieriana,* on potato, cover photo, May
—*P. psidii,* on *Melaleuca,* epidemic in Florida, 831N
—*P. recondita,* on wheat: resistance, 757; resistance genes transferred from other wheats, 582; resistance inheritance, 505; South African pathotype, 423N; specific virulence on adult plants, 267; yield in Mississippi, 769
—*P. striiformis,* on wheat: first report in South Africa, 424N; resistance, 27
—*P. substriata:* on eggplant, 1093N; on pearl millet, temperature and light effect on spore germination, 1049
Putievsky, E., 1077
Putnam, M., 1335N
Pyricularia grisea, on rice: first report in California, 1094N; resistance and fungicide control, in Brazil, 351
Pythium spp.: on corn, biological control, bacterial seed treatment, 450, *824;* on cotton, seed treatments, 766; on wheat, bacterial seed treatments, 180
—*P. arrhenomanes:* on corn, root rot and soil factors, 475; on sugarcane, weed hosts, 587
—*P. irregulare:* on olive root, 1216N; on onion, control, 885; on pea, in Scandinavia, 171
—*P. myriotylum:* on *Lemna gibba,* in Israel, 550N; on tobacco, cover photo, February; on tobacco, in South Carolina, 227N
—*P. ultimum,* detection using PCR, species-specific primers, 1155

Quiñones, M., 1215N

Rabinowicz, P. D., 1005
Radish, bacterial leaf spot, new pathotype, 1334N
Ragozzino, A., 862
Raid, R. N., 232N
Raley, C. M., 551N
Ram, H. H., 107
Ramos, L. J., 509
Ramos, P. L., 1095N
Ramsdell, D. C., 855
Randles, J. W., 343
Raphanus sativus, Alternaria brassicae on, in California, 1094N
Ravelonandro, M., 1231
Ravi, K. S., 673
Raviv, M., 999
Rayachhetry, M. B., 831N
Reddy, H. R., 673
Reed, G. L., 1311
Reese, R. (Calif.), 379
Reese, R. N. (S.D.), 227N
Reichard, S. L., 787
Reichel, H., 552N
Remmers, J., 439
Resistance
—basil to *Fusarium oxysporum,* 1077
—bean to anthracnose, 996
—*Brassica oleracea* to *Rhizoctonia solani,* 946
—cacao to leaf and pod disease, 619
—corn to northern leaf blight, *Ht* gene, 277
—corn to seedling blight, 175
—cotton to seedling disease, 1085
—cowpea to Sphaceloma scab, sources, 1395
—filbert to blight, analysis, 388
—horseradish to Verticillium wilt, inoculation methods, 356
—lettuce to bacterial leaf spot, 1443
—loblolly pine to fusiform rust, 597
—mango to tip dieback, in Florida, 509
—onion to leaf blight, 978
—onion to pink root, in New York, 138
—potato to Verticillium wilt, screening methods, 53
—*Prunus domestica* to plum pox virus, 1231
—*Solanum chacoense to* Verticillium wilt, 1011
—soybean to brown stem rot, in China, 953
—soybean to Phytophthora root rot, 1112
—sweet corn to maize dwarf mosaic virus, 460
—tobacco to black shank, race 0, 1269
—tomato to false root-knot nematode, 217
—tomato to tomato yellow leaf curl virus, cultivars and breeding lines, 1425
—*Triticum monococcum* to eyespot, 1181
—wheat to leaf rust, 505, 582, 757
—wheat to stripe rust, durum, 27
Reuven, M., 777
Reuveni, R., 999, 1077
Reviewers, acknowledgment of, 118

Reynolds, K. L., 163
Rhizoctonia solani
—AG-3 and AG-5, on sugar beet in Minnesota, 245
—on *Brassica oleracea*, resistant cultivars, 946
—on cotton: first report AG-7 in Georgia, 832N; seed treatment for control, 766
—on onion, control, 885
—on pepper-tree, in Florida, 424N
—on rosemary: biological and chemical control, 795; cover photo, July
—on strawberry, cover photo, September
—on table beet, chloride and nitrogen effect, 635
—on tobacco, management in greenhouse, 604
Rhizomonas suberifaciens, on lettuce, cover photo, October
Rhodes, L. H., 13, 787
Rhodotorula glutinis, on apple fruit, cause of russet, 337
Rhopalosiphum padi, barley yellow dwarf virus vector, 570
Rhus aromatica, vascular wilt, 1333N
Ricciolini, M., 922
Riccioni, L., 1143
Rice
—bakanae, control with bacteria, 49
—blast: first report in California, 1094N; resistance and fungicides for control, in Brazil, 351
—*Fusarium moniliforme* on, bacteria for control, 49
—seed disinfestation, sodium chloride effect, 821
Richards, T. L., 653
Richardson, P. A., 230N
Rijkenberg, F. H. J., 41
Riley, K., 525
Riley, T. D., 1305
Ristaino, J. B., 964, 1042
Rivera, C., 374
Rivera-Bustamante, R., 1095N
Rivera-C., J. M., 415
Rizvi, S., 227N
Robbins, J. T., 769
Roberts, J. J., 306
Roberts, P. A., 217
Roberts, P. D., 917
Robertson, A. I., 1115
Rodoni, B. C., 669
Rogers, J. D., 809
Rojas, M. R., 831N
Romanoff, S., 1332N
Romero, J., 112N, 1215N
Romero, R. A., 1139
Ronco, L. B., 230N
Ronning, C. M., 1023
Rosales, A. M., 49
Rose
—*Botrytis cinerea*, pathogenicity variation, 781
—downy mildew, in South Africa, 695N
Rosemarinus officinalis, Rhizoctonia blight and root rot, biological and chemical control, 795
Rossman, A. Y., 424N
Rothrock, C. S., 180
Rott, P., 696N
Rouse, D. I., 773
Rowe, R. C., 103, 1199
Rowhani, A., 799, 1094N
Roy, K. W., 259, 566, 1100
Roye, M. E., 1251
Rubies-Autonell, C., 959N, 1082
Ruiz-Davila, A., 1216N
Rumohra adianiformis, anthracnose, survival in soil and debris, 1177
Rupe, J. C., 1100
Rush, C. M., 85, 1070
Rusuku, G., 445
Sadvakasova, G., 489
Saeed, I. A. M., 773
Saeed, M., 958N
Saenz, G. S., 231N, 1093N
Sáez-Alonso, E., 1461N
Sage, Phytophthora root and crown rot, in California, 959N
Sahin, F., 1334N, 1443
Sales, R., Jr., 1216N
Salix babylonica, anthracnose, first report in Greece, 960N
Salkinoja-Salonen, M., 1317
Sally, B. K., 501, *681*
Salmerón, M. C., 880, 958N
Salmonella spp., on fruits and vegetables in the market, contamination with bacterial soft rot, 867
Sánchez-Campos, S., 1461N
Sanchez-Cuevas, M.-C., 1331N
Sánchez-Hernández, M. E., 1216N
Sando, T., 749
Sandoval, R. V., 228N
Sands, D. C., 501, *681*
Sanogo, S., 333, 661, 753
Santini, J. B., 739
Sarrafi, A., 31
Savithri, H. S., 673
Sawyer, T. L., 388
Saxby, M., 607
Scagliusi, S. M. M., 21
Scardaci, S. C., 1094N
Schaad, N. W., 1370
Schardl, C. L., 430, *956*
Scheck, H. J., 905
Schilder, A., 832N
Schinus terebinthifolius: Rhizoctonia leaf spot, first report in Florida, 424N
Schisler, D. A., 647
Schmitt, D. P., 607
Schneider, B., 254
Schneider, R. W., 821
Schnell, R. J., 1023
Schoenfelder, M., 111N
Schroeder, D. T., 592
Schubert, T. S., 1333N
Schulthess, F., 1323
Schutte, G. C., 851
Schwartz, H. F., 312N
Sclerotinia spp.
—*S. homoeocarpa,* on bentgrass: cultivar recovery from epidemic, 99; fungicides for, 1259
—*S. minor:* on lettuce, dicarboximide resistance, in California, 148; on peanut, advisories and fungicide scheduling, 236; on peanut, crop pruning effect, 990
—*S. sclerotiorum:* on basil, first report in Canada, 229N; on coneflower, first report, 1093N; on *Gaillardia*, in California, 1334N; on *Stevia rebaudiana*, first report, 311N
—*S. trifoliorum:* on alfalfa, chemicals and cultivation for control, 13; on alfalfa, herbicide effect, 787; apothecia, *Coniothyrium* colonization, 695N
Sclerotium rolffsii
—on peanut, tebuconazole for control, 927
—on sunflower, first report in Italy, 960N
Scorza, R., 1231
Scott, D. H., 653
Sdoodee, R., 228N
Sears, J. L., 229N
Sechium edule, chayote mosaic virus of, in Costa Rica, 374
Sedegui, M., 831N, 1093N
Seem, R. C., 71
Seemüller, E., 862
Segura, A., 283, 830N
Seifers, D. L., 1161
Semer, C. R., IV, 424N
Septoria spp., taxonomy and nomenclature, 427
—*S. lycopersici,* on tomato, directional spread in rows, 272
Serra, M. C., 694N
Sétamou, M., 1323
Sether, D. M., 1150
Shamloul, A. M., 154
Shamoun, S. F., 1095N
Sherwood, R. T., 817
Shew, H. D., 604, 1269
Shifriss, C., 185
Shokes, F. M., 1410
Sholberg, P. L., 550N
Shtienberg, D., 36, 777
Sida spp., geminiviruses, genetic diversity from Jamaica, 1251
Sim, S., 1094N
Simmons, G. F., 1405
Sinclair, W. A., 395
Singh, R. P., 27
Sirococcus clavigignenti-juglandacearum
—on black walnut, 830N
—on heartnut, 1461N
Sitobion avenae, barley yellow dwarf virus vector, 570
Sivapalan, A., 113N
Slack, S. A., 423N
Smilanick, J. L., 379, 932, 1299, 1405
Smiley, R. W., 689
Smith, E. B., 231N
Smith, G. S., 363
Smith, K. P., 773
Smith, R., 1094N
Smith, V. L., 229N
Smittle, D. A., 885, 897
Smolinska, U., 288
Sobh, H., 1331N
Socciarelli, S., 960N
Solanum chacoense, Verticillium wilt, resistance genes, 1011
Solar, J. M., 204
Sommartya, P., 167
Sorensen, E. J., 103
Sorghum, ergot
—fungicides for, 761
—in Mexico, 831N
Sorghum stunt mosaic virus, vector transmission, 63
Souze-Dias, J. A. C., 423N
Soybean
—bacterial blight, races in North Dakota, 541
—brown stem rot, residue colonization, 199
—brown stem rot resistance, in China, 953
—debris myobiota, no-tillage system, 530
—disease loss estimates, top 10 soybean countries, 107
—diseases, fertilizer effect, Alabama, 1459
—Fusarium root rot, in Red River Valley, 664
—*Fusarium solani*, sudden death syndrome and nomenclature, 259
—Phomopsis seed decay, detection by PCR, 1143
—Phytophthora root rot: greenhouse technique for resistance, 1112; new races, 653
—seedling blight and root rot, field screening, 363
—stem canker, outbreak in Argentina, 1215N
—sudden death syndrome, 1100; sudden death syndrome, distribution in Iowa, 719; sudden death syndrome, *Fusarium solani* cause, 515; sudden death syndrome, *Fusarium* sporulation, 566
Spatafora, J. W., 1335N
Spencer, N., 439
Speranzini, D., 825
Sphacelia sorghi, on sorghum, first report in Mexico, 831N
Sphaceloma sp., on cowpea, resistance inheritance, 1395

Sphaeropsis sapinea
—on lodgepole pine, in Nebraska, 311N
—on red and jack pine: cover photo, February; morphotypes, 143
Spink, D. S., 113N
Spongospora subterranea, on potato, first report in North Dakota, 693N
Spotts, R. A., 96
Spruce, Tomentosus root disease, annual spread rate, 1053
Squash mosaic virus, *Diabrotica barberi* transmission, in South Dakota, 696N
Sreenivasan, T. N., 619
Stace-Smith, R., 481
Stagonospora spp., taxonomy and nomenclature, 427
—*S. nodorum,* on wheat: aggressive isolates in northern Great Plains, 1027; factors affecting, 1279; isolate stability from perennial grass hosts, 1037; isolates from perennial grasses, 1032
Stall, R. E., 917
Stanghellini, M. E., 4, 957N
Stanosz, G. R., 111N, 143, 311N, 424N
Stapleton, J. J., 1089
St. Augustinegrass, take-all, cross pathogenicity with rice, 1127
Steffenson, B. J., 1275
Steininger, J., 1333N
Stemphylium solani, on tomato, in Venezuela, 1332N
Stephens, P. A., 953
Stevenson, K. L., 983
Stevenson, R. E., 753
Stewart, R., 831N
Stone, J. K., 1333N
Stover, R. H., 1332N
Strandberg, J. O., 1177
Strawberry
—angular leaf spot, yield loss and control, 917
—anthracnose: fungicides for, 749; temperature effect, 77
—phytoplasma, detection in Florida, 230N
Streptomyces spp.: pathogenic species, survey, 836; on potato, host range, 901; on potato, scab lesion association, in Finland, 1317
—*S. scabies:* on peanut, net blotch and necrotic warts on pods, 958N; on potato, cover photo, August
Strider, D. L., 228N
Striga hermonthica, Myrothecium and *Curvularia* spp. on seeds of, in Nigeria, 832N
Strong, S. S., 89
Styer, W. E., 63
Su, H.-J., 550N
Subbarao, K. V., 148, 766
Sugar beet
—*Fusarium oxysporum* on, isolate variation, vegetative compatibility, 85
—rhizomania and other furoviruses, in Minnesota, 229N
—*Thanatephorus cucumeris* on, in Minnesota, 245
Sugarcane
—leaf scald, detection with polymerase chain reaction, 189
—leaf scald and ratoon stunting, in French Guyana, 696N
—red rot, stalk desiccation effect, 1247
—root rot, weed hosts, 587
—yellow leaf disease in Brazil, luteovirus, 21
Sugarcane mosaic virus, outbreak in Florida, 957N
Sugarcane yellow leaf virus, cover photo, January
Sulc, R. M., 13, 787
Sumner, D. R., 885, 897
Sundstrom, F. J., 831N
Sunflower
—downy mildew, in South Africa, 111N
—root-knot nematode, in Mozambique, 1333N
—*Sclerotium rolfsii,* first report in Italy, 960N
Sutton, J. C., 316
Sutton, T. B., 1015, 1139
Sweetpotato, viruses, survey in Zimbabwe, 1115
Syringa vulgaris, Pseudomonas syringae on, tissue culture bioassay, 905

Tahir, M., 1333N
Tanaka, S., 167
Tangelo, Alternaria brown spot, in Turkey, 1214N
Tapsoba, H., 1049
Taxonomy, *Septoria* and *Stagonospora* spp., on small grains, 427
Taxus brevifolia, Phytophthora lateralis on, susceptibility, 1400
Taylor, N. J., 424N
Taylor, S. J., 535
Tea, Armillaria root disease, distribution and severity in Kenya, 133
Teakle, D. S., 228N, 348
TeBeest, D. O., 404
Tejerina, J. C., 1332N
Tekauz, A., 159
Teverovsky, E., 489
Teviotdale, B. L., 1454
Thanatephorus cucumeris, on sugar beet
—cover photo, March
—disease in Minnesota, 245
Theobroma cacao, pod resistance, foliar resistance comparison, 619
Thinggaard, K., 960N
Thomas, P. E., 1311, 1447
Thomas, P. L., 1328
Thomas, W., 964
Thoreson, D., 830N
Thornton, R. E., 103
Thuja plicata, wood decay, woodpecker association, 551N
Thyronectria balsamea, on *Abies fraseri,* in Pennsylvania and North Carolina, 830N
Tiffany, L. H., 576
Tillage
—bean anthracnose, 71
—soybean debris myobiota effect, 530
Tilletia indica
—teliospore germination, hot water and sodium hypochlorite treatment, 932
—on wheat, risk assessment in Pacific Northwest, 689
Timmer, L. W., 1214N
Timper, P., 228N
Tisserat, N., 1333N
Tobacco
—black shank, resistance inheritance, 1269
—damping-off, inoculum source and management, in greenhouse, 604
—*Pythium myriotylum* on, seedling float system, South Carolina, 227N
Todd, J. W., 1410
Tollner, B., 897
Tollner, E. W., 885
Tomato
—anthracnose: conidial germination and appressorium formation, 715; early blight, and leaf spot, fungicides for in New York and New Jersey, 677
—anthracnose fruit rot, management strategies, 1167
—black dot, fungicides for, 1439
—black mold, chlorothalonil for, 601
—*Erwinia carotovora*, new host in Argentina, 230N
—false root-knot nematode on, resistance, 217
—fruit rot, weather variables, 753
—Fusarum wilt, resistance from nonpathogenic strain, 492
—geminivirus: bipartite, in Cuba, 1215N; new in Brazil, 423N
—geminiviruses on, whitefly-transmitted: emergence in Western Hamisphere, 1358; in Venezuela, 312N
—gray leaf spot, in Venezuela, 1332N
—gray mold, host and climate infection factors, 36
—late blight: detection using PCR, 1042; re-emergence in USA and Canada, 1349
—leaf curl: geminivirus association in Tanzania, 111N; geminivirus evidence in Pakistan, 958N
—leaf spot, first report, 228N
—powdery mildew: in Connecticut, 229N; first report in New Jersey greenhouse, 227N
—Septoria leaf spot, directional spread, 272
Tomato mottle virus, new bipartite geminivirus in Cuba, 1095N
Tomato ringspot virus, on plum, prune brown line disease, 855
Tomato spotted wilt virus, on peanut, field response, 1410
Tomato yellow leaf curl virus
—on tomato, first report in Spain, 1461N
—resistance, 1425
Tomato yellow mottle virus, cover photo, December
Toppe, B., 960N
Torsello, M. L., 369
Tosi, L., 1333N
Toxoptera citricidus, citrus tristeza virus vector in Florida, 18
Trapero-Casas, A., 1216N
Trevathan, L. E., 769
Trichoderma harzianum, biocontrol agent, turf diseases, 1132
Trichothecium roseum, on prune, plum, and nectarine, in California, 112N
Trout, C. L., 1042
Tsror (Lahkim), L., 469, 1203
Turf
—disease control by *Trichoderma,* 1132
—dollar spot, fungicides for, 1259
—*Pratylenchus fallax* on, in Ontario, 1331N
Turina, M., 1082
Tuskan, G. A., 57
Tzavella-Klonari, K., 960N

Uchida, J. Y., 298
Uddin, W., 983
Ulian, E. C., 21
Ullman, D. E., 1150
Umaharan, P., 619
Uncinula necator
—cleistothecia, inoculum source in Italy, 922
—on grape: fungicide sensitivity, 293; temperature and triadimefon effect, fungicide resistance, 1187
Usall, J., 379
Ustilago spp.
—*U. nuda,* on barley, cover photo, July
—*U. tritici,* long-term storage, 1328
Uyemoto, J. K., 799

Valdebenito-Sanhueza, R. M., 316
Valencia, J., 601
Valjavec-Gratian, M., 1275
Valkonen, J. P. T., 1317
van Iersel, M. W., 743
van Kan, J. A. L., 781
Van, T. K., 831N
van Wyk, P. S., 111N, 958N
Varma, A., 669
Vazquez, G. L., 228N
Vega, J., 21
Velasquez-Valle, R., 312N

Venette, J. R., 541
Venturia spp., on apple and pear, dolomitic lime on production of asci and pseudothecia, 96
—*V. inaequalis:* on apple, infection efficiency, flower bud stage, 661; isolate sensitivity to fungicides, in Lebanon, 112N
Verduin, B. J. M., 1115
Veremis, J. C., 217
Vernon, P. R., 66
Verslues, P. E., 535
Verticillium sp., on pepper, cover photo, April
—*V. albo-atrum,* on *Solanum chacoense*, resistance genes, 1011
—*V. dahliae:* on cotton, potassium in leaf petiole effect, 1089; on horseradish, inoculation methods, 356; on potato, immunoassay compared with culture plate method, 53; on potato, methyl bromide for, 469; on potato, soil factors and metham-sodium, 773
Vicente, P. M., 1333N
Vicia faba
—*Ascochyta fabae* on, *A. lentis* comparison, 809
—viruses of, in Spain, 112N
Vigna unguiculata, Colletotrichum dematium on, in South Africa, 832N
Viljoen, A., 111N
Villalobos, W., 374
Vincelli, P., 99, 695N
Viruses
—geminiviruses, on tomato, whitefly-transmitted, 1358
—luteoviruses, transgenic resistance to, risks, 700
—on woody plants, detection with RNA extraction and reverse transcription PCR, 222

Wagemakers, C. A. M., 781
Wakeman, R. J., 1089
Walker, D. R., 236
Walker, S. E., 1333N
Walla, J. A., 57
Wang, B.-C., 809
Wang, C. (S.D), 57
Wang, C.-L. (N.J.), 227N
Wang, H., 1085
Wang, L., 695N
Wang, M., 1150
Wangsomboondee, T., 1042
Ward, J. M. J., 41
Wargo, P. M., 133
Watermelon
—anthracnose, temperature and leaf wetness effect, model, 739
—bacterial fruit blotch, in Oregon, 113N
—gummy stem blight, in California, 1331N
Watermelon mosaic virus 2, on cucumber, multiple virus inoculation, 733
Waterworth, H. E., 329
Watson, A. K., 629
Waudo, S. W., 133
Weaver, M. B., 501, *681*
Webster, R. K., 1094N
Weeks, J. R., 927
Wegulo, S. N., 415
Wehner, F. C., 455
Weidemann, H. L., 694N
Weir, B. L., 1089
Weist, C. F., 1299
Welch, J., 936
Wells, J. M., 867
Welty, R. E., 1335N
Wenner, N. G., 229N, 230N, 231N, 830N
Wernsman, E. A., 1269
Whalen, J. M., 1093N
Wheat
—curl mite, High Plains virus vector, 1161
—eyespot, resistance identification, 1181
—*Fusarium* on seeds, storage effect, 159
—karnal bunt, 1370; risk assessment in Pacific Northwest, 689; teliospore germination with hot water and sodium hypochlorite treatment, 932
—leaf rust: adult plant resistance, 267; inheritance, 505; resistance genes transferred from other wheats, 582; resistance genetics, 757; yield relation, 769
—Pythium root rot, bacterial seed treatments, 180
—scab, epidemics, 1340
—Stagonospora blotch, factors, 1279
—*Stagonospora nodorum* on: aggressiveness in northern Great Plains, 1027; isolate stability from perennial grass hosts, 1037; isolates from perennial grasses, 1032
—stripe rust, resistance, 27
Wheat streak mosaic virus
—on corn, High Plains virus complex, 195
—detection in wheat curl mite, 250
White clover, viruses, survey in Pennsylvania, New York, and Vermont, 817
White, J. F., Jr., 227N
Whitlow, T. H., 395
Whittington, D. P., 232N
Wick, R. L., 1077, 1214N
Widner, J. N., 229N
Wiener, R. W., 1057
Wild rice, fungal brown spot, temperature and moisture effect, 1193
Williams A. H., 831N
Wilson, C. L., 204
Wilson, D. M., 1429
Wilson, J. P., 1049, 1093N
Wilson, L. L., 77
Wilsonomyces carpophilus, on almond, kernel quality effect, 1454
Windels, C. E., 245, 664
Wipf-Scheibel, C., 656
Wisler, G. C., 229N, 550N
Wisniewski, M. E., 204
Wissadulta amplissima, geminiviruses, genetic diversity from Jamaica, 1251
Wittig, H. P. P., 383
Wolff, M. F., 1269
Woods, S. M., 159
Woods, V. L., 1331N
Woody plants, viral pathogen detection, RNA extraction and reverse transcription PCR, 222
Wrather, J. A., 107
Wu, M.-L., 550N
Wutsche, H. K., 551N

Xanthomonas spp.
—*X. albilineans,* on sugarcane, polymerase chain reaction for detection, 189
—*X. axonopodis,* on citrus: cover photo, November; spray adjuvant effect, 1305
—*X. campestris:* on asparagus, new in Florida, 847; on asparagus tree fern, cover photo, August; on cereals and grasses, RFLP analysis, 31; on lettuce, resistance and seed treatment, 1443; on onion, alternative hosts and resistant genotypes, 978; on pepper, resistance and copper spray relation, 791; on radish, new pathotype, 1334N
—*X. fragariae,* on strawberry, yield loss and control, 917
Xiong, Z., 1333N
Xylella fastidiosa, on citrus, strain survey in Brazil, 1196

Yanar, Y., 475
Yang, X. B., 719
Yaninek, J. S., 112N, 1332N
Yates, I. E., 723
Yehezkel, A., 1425
Yin, Z., 1247
Yokomi, R. K., 1066
Yorinori, J. T., 107
Young, J., 653
Ypema, H. L., 293, 1187
Ypema, M., 293
Yu, H., 316
Yu, Q., 1331N
Yuen, J. M. F., 847

Zabalgogeazcoa, I., 830N, 1215N
Zafar, Y., 958N
Zambonelli, A., 1241
Zandomeni, R., 695N
Zarnoch, S. J., 942
Zazzerini, A., 1333N
Zechini D'Aulerio, A., 1241
Zee, F., 1150
Zerbini, F. M., 641
Zhang, A. W., 1143
Zhang, P., 316
Zhang, W. M., 629
Zitter, T. A., 592
Zucchini yellow mosaic virus, multiple virus inoculation in cucumber, 733
Zuniga, T. L., 592
Zygophiala jamaicensis, on apple, summer pruning for disease reduction, 1123